

WHIP 12 - STREAMBANK AND SHORELINE PROTECTION

FOTG Practice Code 580

A. PURPOSE

The purpose of this practice is to stabilize eroding streambanks while providing improved fish habitat, aquatic endangered and threatened species habitat, and water quality benefits. The practice will decrease sedimentation, create stream shading, and provide detritus for aquatic organisms.

B. PROGRAM POLICY

Eligible project sites shall meet the following conditions:

1. Stream has perennial flow; or
2. Seasonal streams, excluding gullies and sod waterways.
3. Contain streambanks exposed due to lack of adequate cover.
4. Have a drainage area immediately upstream of less than 50,000 acres.
5. Have a bank less than 12 feet in vertical height as measured from edge of water at base flow.

C. ELIGIBILITY

To be eligible for cost share, this practice shall:

- Improve wildlife habitat benefits to an acceptable level.
- Prevent degradation of environmental benefits.
- Be maintained for the expected lifespan of the practice.
- Be included in the approved Wildlife Habitat Development Plan.

D. COST-SHARE POLICY

Eligible practice components for this practice shall be determined needed by NRCS and specified in an approved Wildlife Habitat Development Plan (WHDP). This practice shall have a cost-share limit of \$5,000 per site not to exceed \$15,000 provided to an applicant per contract. This practice shall be cost shared at a rate to meet the minimal needs of the NRCS WHDP.

Eligible Components

Trees
Shrubs
Planting Costs
Eligible Seed
Seeding
Temporary Cover
Mulch
Labor

Root Wad Installation
Coconut Fiber Roll
Rock Rip Rap
Geotextile

Temporary cover will be eligible under one of the following conditions: (a) determined needed until required seeds or plant stock is available; (b) needed because normal planting period for the species has passed; (c) needed because of a soil condition such as chemical residue that will not allow establishment of cover immediately.

E. REQUIREMENTS

The following are requirements for this practice.

1. The planted area shall not be grazed by domestic livestock for the life of the Long-Term Contract.
2. Practice shall provide adequate streambank stabilization and reduce sediment being delivered to receiving waters.
3. A minimum of two rows of trees shall be established beginning at the top of all stabilized streambanks.
4. A current soil test is required for all permanent, herbaceous plantings. Lime and fertilizer are NOT required for trees, shrubs, or temporary cover.

F. PLANTING TIMESPAN

Planting after the WHIP Long-Term Contract is approved by the Contracting Officer (Area Conservationist) shall be completed as scheduled in the Wildlife Habitat Development Plan (WHDP), unless the producer can provide acceptable documentation that seed stock is not available.

G. ENVIRONMENTAL CONCERNS

Consider other resource and environmental concerns (e.g., cultural, wetlands, etc.) as prescribed by the National Environmental Policy Act (NEPA) and other applicable laws and regulations when establishing this practice. A TN-CPA-25 must be completed for each WHDP.

All necessary permits shall be obtained by the participant. Permits needed may include those issued by the U.S. Army Corps of Engineers, Tennessee Department of Environment and Conservation, and/or the Tennessee Valley Authority (TVA).

H. PRACTICE MAINTENANCE

The practice shall be maintained without additional federal cost share for the expected lifespan of the practice. Cost share shall be refunded if either of the following applies:

1. Participant destroys the cover during its lifespan; or
2. Cover fails to provide the desired wildlife and water quality benefits during the life of the WHIP Contract, unless the failure is caused by circumstances beyond the participant's control.

I. TECHNICAL RESPONSIBILITY

NRCS shall have technical responsibility for this practice.

J. SPECIFICATIONS

Approved Cover Approved plant materials are listed below. Substitutions may be allowed subject to prior approval by the WHIP Program Leader or State Biologist.

Requirements Temporary cover, when required, is authorized.

A current soil test is required for all permanent, herbaceous plantings. Lime and fertilizer are NOT required for trees, shrubs, or temporary cover.

If needed, apply mulch as recommended by the FOTG conservation practice standard Code 342.

<u>Eligible Seeds or Plants</u>	<u>Seeding Rates (per acre)</u>	<u>Seeding Dates</u>
Switchgrass	15.0 lbs. (PLS $\frac{1}{2}$)	Apr. 1-July 1
Virginia Wildrye	20.0 lbs. (PLS $\frac{1}{2}$)	Aug. 15-Oct. 15
Temporary Cover – Summer		
Millet, Browntop	25.0-40.0 lbs.	May 1-July 1
Sudangrass	30.0 lbs.	Apr. 1-July 1
Temporary Cover – Winter		
Winter Wheat	1.5-2 bushels	Sept. 1-Oct. 20
Cereal Rye	1.5-2 bushels	Sept. 1-Oct. 20

<u>Eligible Seeds or Plants</u>	<u>Seeding Rates (per acre)</u>	<u>Seeding Dates</u>
<u>Trees</u>		
Yellow Poplar	12x12 (302/ac.)	Nov. 1-Apr. 1
White Ash	12x12 (302/ac.)	Nov. 1-Apr. 1
Green Ash	12x12 (302/ac.)	Nov. 1-Apr. 1
Hickory	12x12 (302/ac.)	Nov. 1-Apr. 1
Pecan	12x12 (302/ac.)	Nov. 1-Apr. 1
Black Walnut	12x12 (302/ac.)	Nov. 1-Apr. 1
Blackgum	12x12 (302/ac.)	Nov. 1-Apr. 1
Persimmon	12x12 (302/ac.)	Nov. 1-Apr. 1
Cherrybark Oak	12x12 (302/ac.)	Nov. 1-Apr. 1
Willow Oak	12x12 (302/ac.)	Nov. 1-Apr. 1
Sawtooth Oak	12x12 (302/ac.)	Nov. 1-Apr. 1
Nutall Oak	12x12 (302/ac.)	Nov. 1-Apr. 1
Shumard Oak	12x12 (302/ac.)	Nov. 1-Apr. 1
Black Oak	12x12 (302/ac.)	Nov. 1-Apr. 1
Pin Oak	12x12 (302/ac.)	Nov. 1-Apr. 1
Water Oak	12x12 (302/ac.)	Nov. 1-Apr. 1
Swamp Chestnut Oak	12x12 (302/ac.)	Nov. 1-Apr. 1
Swamp White Oak	12x12 (302/ac.)	Nov. 1-Apr. 1

<u>Shrubs</u>		
Bankers Willow	3x3 (302/ac.)	Nov. 1-Apr. 1
Coastal Plain Willow	3x3 (4,840/ac.)	Nov. 1-Apr. 1
Buttonbush	3x3 (4,840/ac.)	Nov. 1-Apr. 1
Silky Dogwood	8x8 (680/ac.)	Nov. 1-Apr. 1
Gray Dogwood	8x8 (680/ac.)	Nov. 1-Apr. 1

Eligible plant materials from cuttings (local sources collected on site):

<u>Cuttings</u>		
Black Willow	3x3 (4,840/ac.)	Dec. 1-Mar. 1
Coastal Plain Willow	3x3 (4,840/ac.)	Dec. 1-Mar. 1
Buttonbush	3x3 (4,840/ac.)	Dec. 1-Mar. 1
Silky Dogwood	3x3 (4,840/ac.)	Dec. 1-Mar. 1
Gray Dogwood	3x3 (4,840/ac.)	Dec. 1-Mar. 1
Eastern Cottonwood	3x3 (4,840/ac.)	Dec. 1-Mar. 1
American Elder	3x3 (4,840/ac.)	Dec. 1-Mar. 1

^{1/} PLS = Pure Live Seed